Project Overview

Project History

- Congressional intent:
  - Increase military readiness through training with technology
  - Reduce the digital divide
- 1995 - CNGB designated executive agent for DTTP
  - National Guard is state/community based
  - National Guard is assuming increasing role in federal missions
  - National Guard readiness presents unique challenges
  - Armory in every Congressional district -- access to every community in America
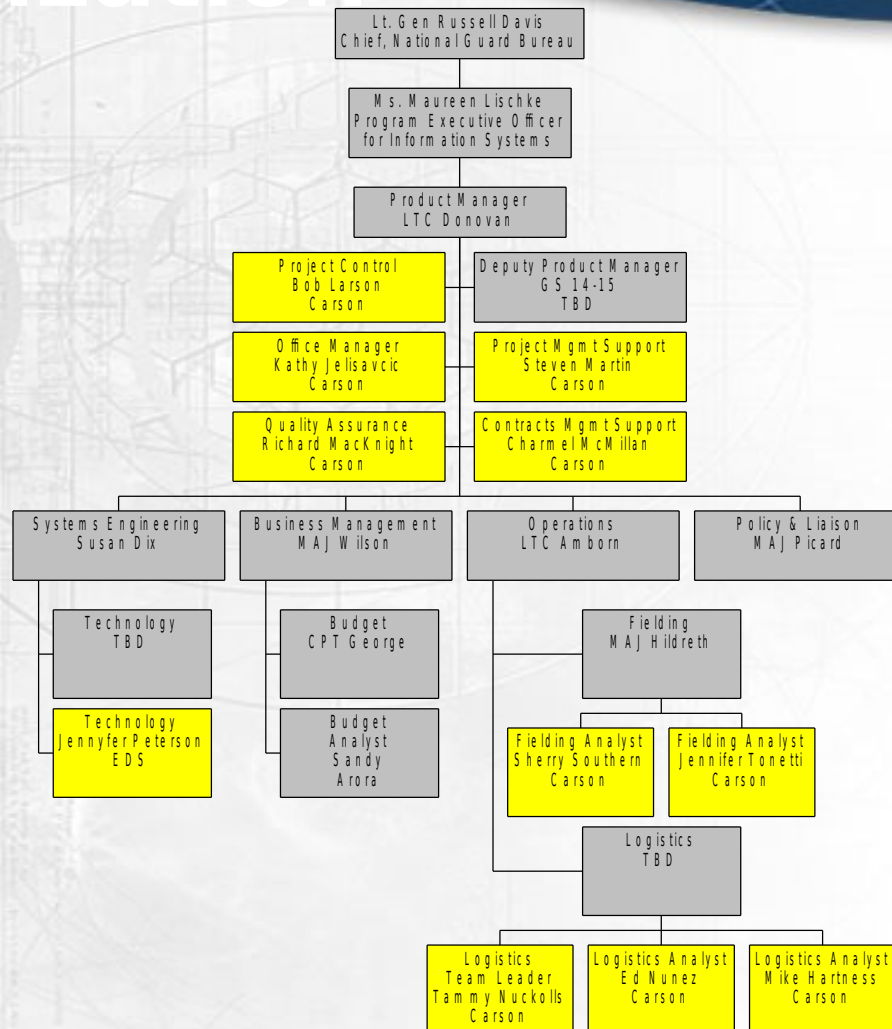
Project History (Cont'd)

- Congress appropriated funds to
  - Improve military readiness
  - Improve C$_4$ (Command, Control, Communications and Computers)
  - Demonstrate concept of shared use - increasing community access to advanced technologies
- Demonstration Project fielded successfully (FY97)
- Network completed (FY98)
- Classroom rollout initiated (FY98)
- Courseware Delivery and Scheduling system deployed (v1.0 FY00; v2.0 FY01)
- NGB DL Strategic Plan staffed for final approval (FY00)

What is the DTTP?

- Distributive Training Technology Project
  - National Guard's learning and information delivery system
  - Provides Guard soldiers and their communities access to education, training, and information

- DTTP Missions
  - Improve military readiness
  - Improve C4 (Command, Control, Communications, and Computers)
  - Demonstrate concept of shared learning & information resources

DTTP Organization

Lt. Gen Russell Davis
Chief, National Guard Bureau

Ms. Maureen Lischke
Program Executive Officer
for Information Systems

Product Manager
LTC Donovan

Project Control
Bob Larson
Carson

Deputy Product Manager
GS 14-15
TBD

Office Manager
Kathy Jelisavcic
Carson

Project Mgmt Support
Steven Martin
Carson

Quality Assurance
Richard MacKnight
Carson

Contracts Mgmt Support
Charmel McMillan
Carson

Systems Engineering
Susan Dix

Business Management
MAJ Wilson

Operations
LTC Amborn

Policy & Liaison
MAJ Picard

Technology
TBD

Budget
CPT George

Fielding
MAJ Hildreth

Technology
Jennyfer Peterson
EDS

Budget
Analyst
Sandy
Arora

Fielding Analyst
Sherry Southern
Carson

Fielding Analyst
Jennifer Tonetti
Carson

Logistics
TBD

Logistics
Team Leader
Tammy Nuckolls
Carson

Logistics Analyst
Ed Nunez
Carson

Logistics Analyst
Mike Hartness
Carson

Mission Area

"The NGB system will provide the high-speed information access capability necessary for improvement of the National Guard soldier readiness, and it will also increase the quality of life in communities where they live and work. The system supports the training mission area..." (Ref Para 1.1, DTT System ORD)

Goals of the DTT System are:

DTTP

- Lower costs, improve performance and facilitate C-4 within the National Guard
- Demonstrate the concept of "shared-use" of the installed education, training and information resources

TADLP

- Improve readiness by providing greater access to military training & education

Mission: Readiness Training

To improve readiness by providing greater access to military training and education.

- Military & Readiness Training

- CounterDrug Activities

- Human Resources

- Public Affairs

- Family Programs

- Recruiting & Retention

Readiness is the first priority

Mission: Readiness Training

- **California**: conducted Automated Training Ammunition Management System (ATAMS) training in Sacramento and Los Alamitos classrooms; 67 soldiers participated, saving approximately $10,200

- **South Carolina:** conducted 3-way VTC on Field Artillery training with sites in Florida and NC in January; students in all 3 states graduated from the training, 13 P, via VTC--a first for the SC ARNG

- **Georgia: c**onducted multi-agency (FBI, NDIC, Georgia Bureau of Investigation, ARNG and Treasury) training with National Drug Intelligence Center (NDIC) - two week session VTC, CBT & residence training

Mission: C4

To improve and facilitate Command, Control, Communications, and Computers (C4) within the National Guard.

- Increased communication capabilities: GuardNet XXI, network infrastructure, HUBs, STARCs

- Crisis Management/Emergency Response centers

- Cross-Military Interoperability

Mission: C4

- **Kansas**: DTTP Classroom in Hutchinson Community College was used for emergency communication between Hutchinson and government officials after a gas leak in Hutchinson created an extremely volatile situation

- **Washington**: DTTP VTC technology used to allow soldiers in Macedonia to visit virtually with family members at Camp Murray

- **West Virginia:** Classrooms served as Federal Emergency Management Agency (FEMA) operation centers when dangerous floods swept through the state

Mission: Shared Use

To foster economic development, increase educational achievement, and improve information access for the local communities in which the National Guard is based

- Public Law 105-262(A) states, "… the Chief of the National Guard Bureau may permit the use of equipment of the National Guard Distance Learning Project by any person or entity on a space-available, reimbursable basis."
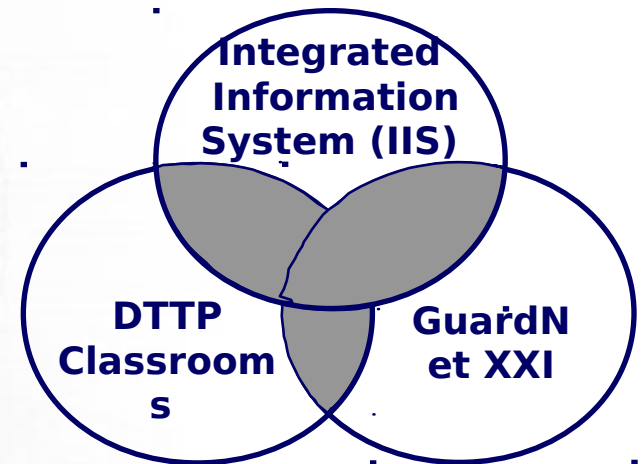
Mission: Shared Use

- **Defense Language Institute**
  - Extend reach of DLI through the use of Guard DL resources
  - Improve ability of Guard to provide language training to more soldiers
- **Shriners Hospitals for Children**
  - Provide Shriners Hospitals for Children access to Guard Network
  - Telemedicine capabilities save hospitals tens of thousands of dollars in travel and transportation costs
- **Clemson University**
  - Classroom installed on campus
  - Conduct quarterly conference with other colleges and universities
  - Help university publicize capabilities and expand marketing horizons using VTC equipment
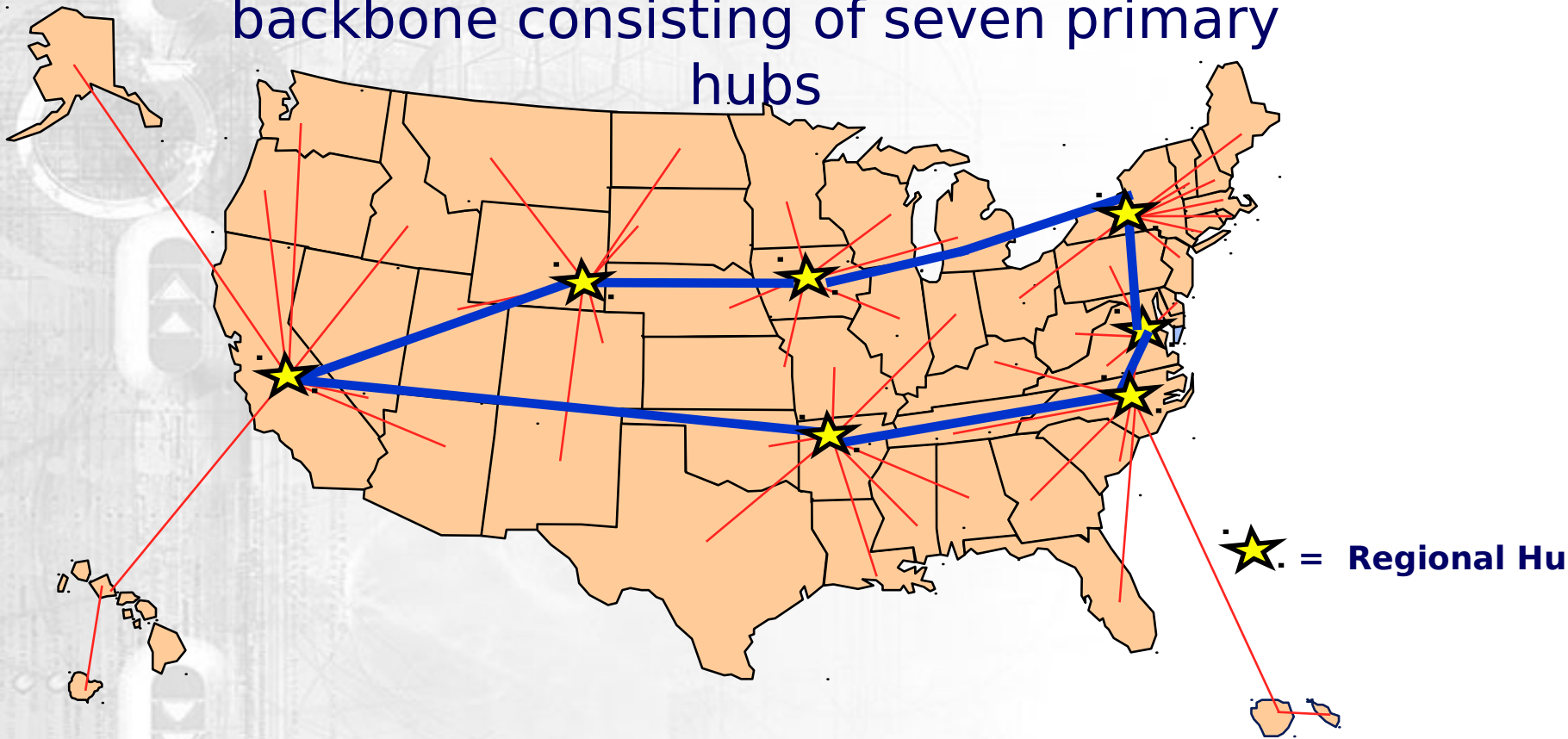
DTTP... A System of Systems

- GuardNet XXI
  - ATM backbone
  - Connectivity to 54 states/territories

- Multi-media classrooms
  - 243 installed as of 5 June 2001
  - Approximately 478 planned by 2003

- Integrated Information System (IIS)
  - Courseware access from repositories
  - Scheduling services (local and network)
  - Metering/billing

Integrated Information System (IIS)

DTTP Classrooms

GuardNet XXI

GuardNet XXI Network

Asynchronous transfer mode (ATM) backbone consisting of seven primary hubs

= Regional Hu

GuardNet XXI Capabilities

- Anytime, anywhere access to military, academic, and commercial courseware

- Demonstrated interoperability between other military and civilian networks

- Broadband, high-speed circuits
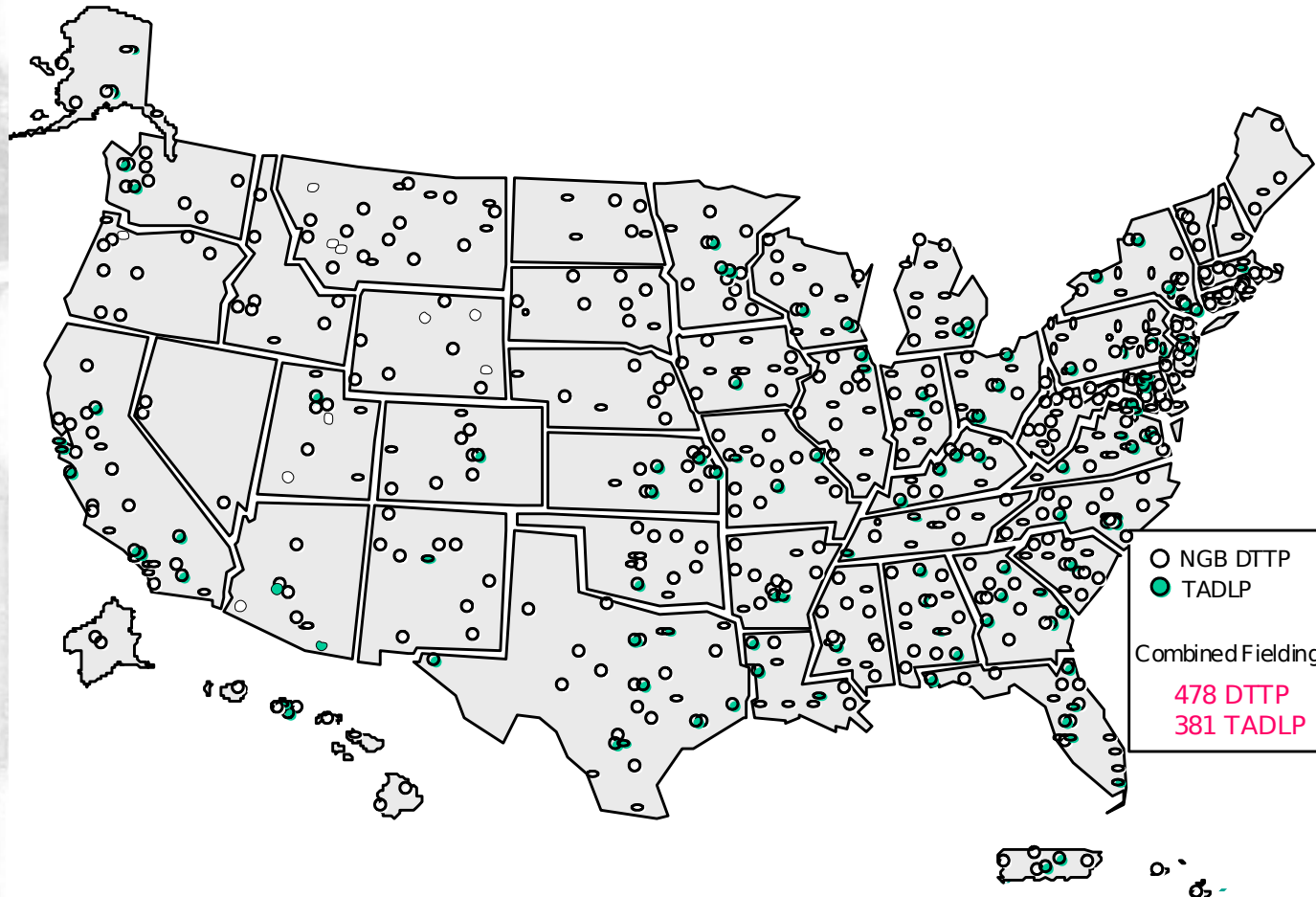
Multi-media Classroom Capabilities

- Installed 291 multimedia classrooms and 54 ATM command and control VTC sites
- Currently fielding an average of 6-7 classrooms per month
- Support multiple functions:
  - Video teleconferencing
  - Room-based video teletraining
  - Course metering & scheduling
  - Audio conferencing
  - Telecommuting
  - Networked classrooms
  - Touch panel classroom control
  - Remote maintenance
  - Digital video storage
  - Courseware storage & delivery

Classroom Configuration
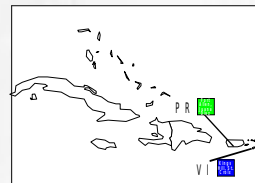
DTTP/TADLP Classroom Goals

Legend:
- ○ NGB DTTP
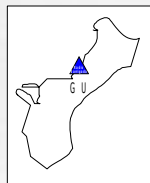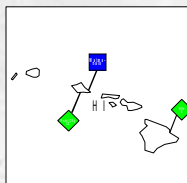- ● TADLP
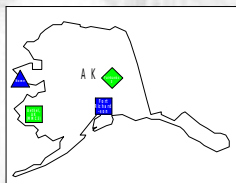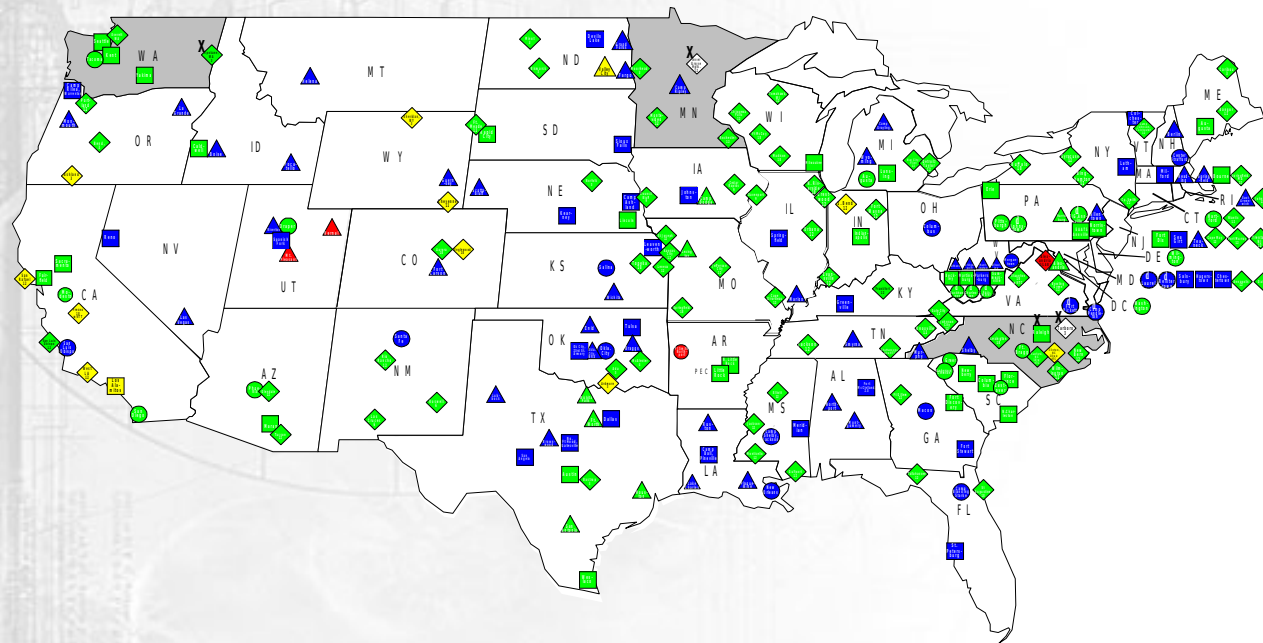
Combined Fielding
478 DTTP
381 TADLP

Classroom Installations

DTTP CLASSROOM INSTALLATIONS
June 12, 2001

TOTAL CLASSROOM INSTALLATIONS: 245*

Status of Site:

- 🟩 Classrooms complete (including IIS) (143)
- 🟦 Classroom complete without IIS (84)
- 🟨 Classrooms signed off with exceptions (13)
- 🟥 Classroom installations on hold (3)
- ⬜ Classroom installations started/in progress (2)
- X Regions/sites with changes in past week

Type of Site	#
◆ MMS [1]	91
◇ DMMC [2]	35
■ MMC [3]	66
▲ MTC [4]	53
Total	**245***

* Total does not include 61 Single Trainer Classrooms (STCs) or MMS lab at Alexandria, VA

[1] Multi-Media Scaleable. [2] Dual Multi-Media Classroom; total includes nine demonstration classrooms (marked "d") in Maryland, Pennsylvania, Virginia, District of Columbia. [3] Multi-Media Classroom. [4] Medium Trainer Classroom

eds gig: dlct-arng-kl100bj4030-kgf-weekly map-06/12/01

National Guard Bureau Responsibilities ...

- Encourage state initiative while ensuring continuity of service
- Establish support systems for success
  - Small businesses in a military culture
  - Complex legal constraints
  - Limited content availability
- Foster collaboration in an organization that values independence
- Establish priorities
- Keep up with industry (e.g. technology and courseware)

State Responsibilities…

- Migrate Guard training to DL, as appropriate
- Make resources available to the community through shared use initiatives
- Ensure costs are reimbursed to the federal government
- Leverage existing resources - establish partnerships
- Satisfy legal requirements
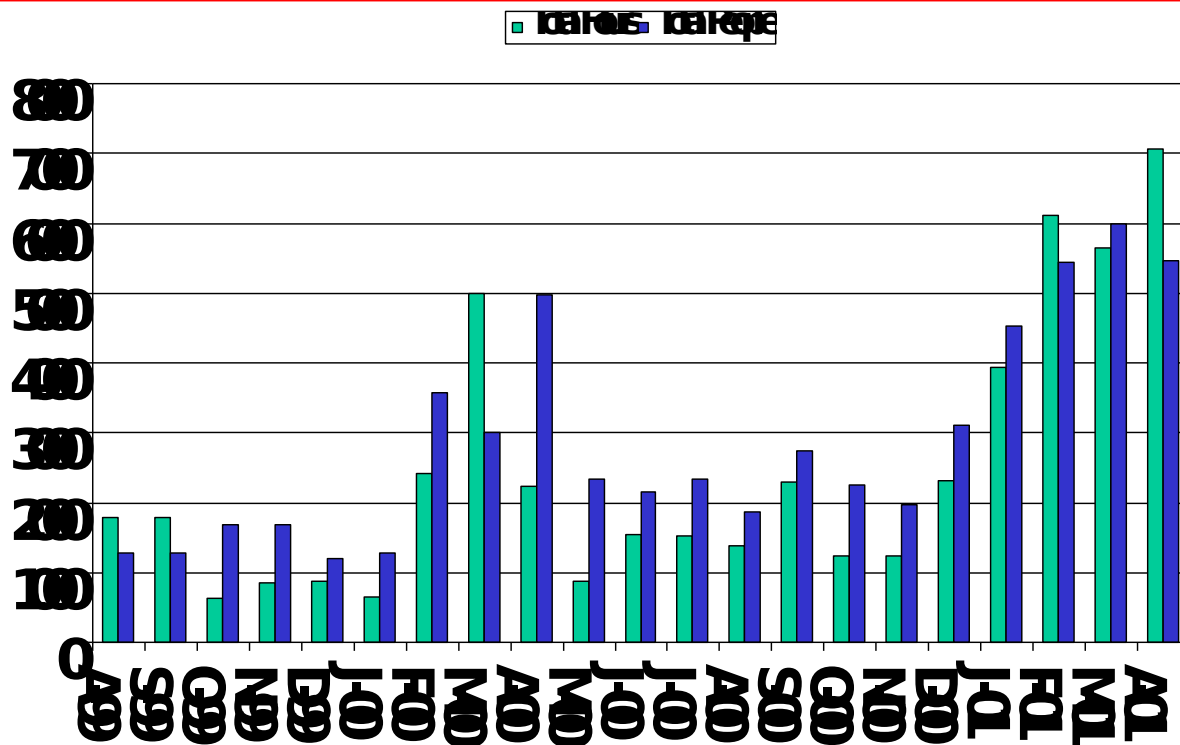- Support continuity of service initiatives

Project Status

- Combined TADLP/DTTP MNS approved April 99

- DTT System ORD concurred with comment by TRADOC April 00

- DTTP Economic Analysis sufficiency review by CEAC June 00

- DTTP Security Accreditation (SBU) approved by DISC4 & PEO June 00

- As of June 11, 2001 installed 245 multimedia classrooms and 61 small trainer classrooms; 164 of the classrooms have IIS; 54 ATM command & control VTC sites

- Current installment rate of 7 per month

Site Usage Report
as of April 01

What are we doing?

- Near term:
  - NGB is providing states additional resources to operate classrooms
  - Continuing to build shared use support systems
  - Introducing organic satellite system
  - Defining requirements for appropriately tailored, individualized learning portal
  - Delivering improved collaborative tools
  - Selecting Learning Management System solution
  - Increasing enterprise audio/video bridging resources
  - Engineering, testing next generation classroom
  - Working with DoD on content issues and organizational barriers

Ongoing Initiatives

- Satellite Integration
  - One-way video/two-way audio satellite
    - Building on ANG Warrior Network
    - Coordinating Installation of 100 (+/-) Downlink Sites
    - Designing Broadcast Suites
    - Sharing ANG and other DOD Uplinks
- Training Portal Development
  - Requirements Gathering at DL POC Conference - 19-22 June
- MCU Upgrade
  - Phase 1 (of V) Procurement Initiated
  - Phase II upon Receipt of OPA Funds on Withhold at OSD
- Strategic Issues Task Force Study

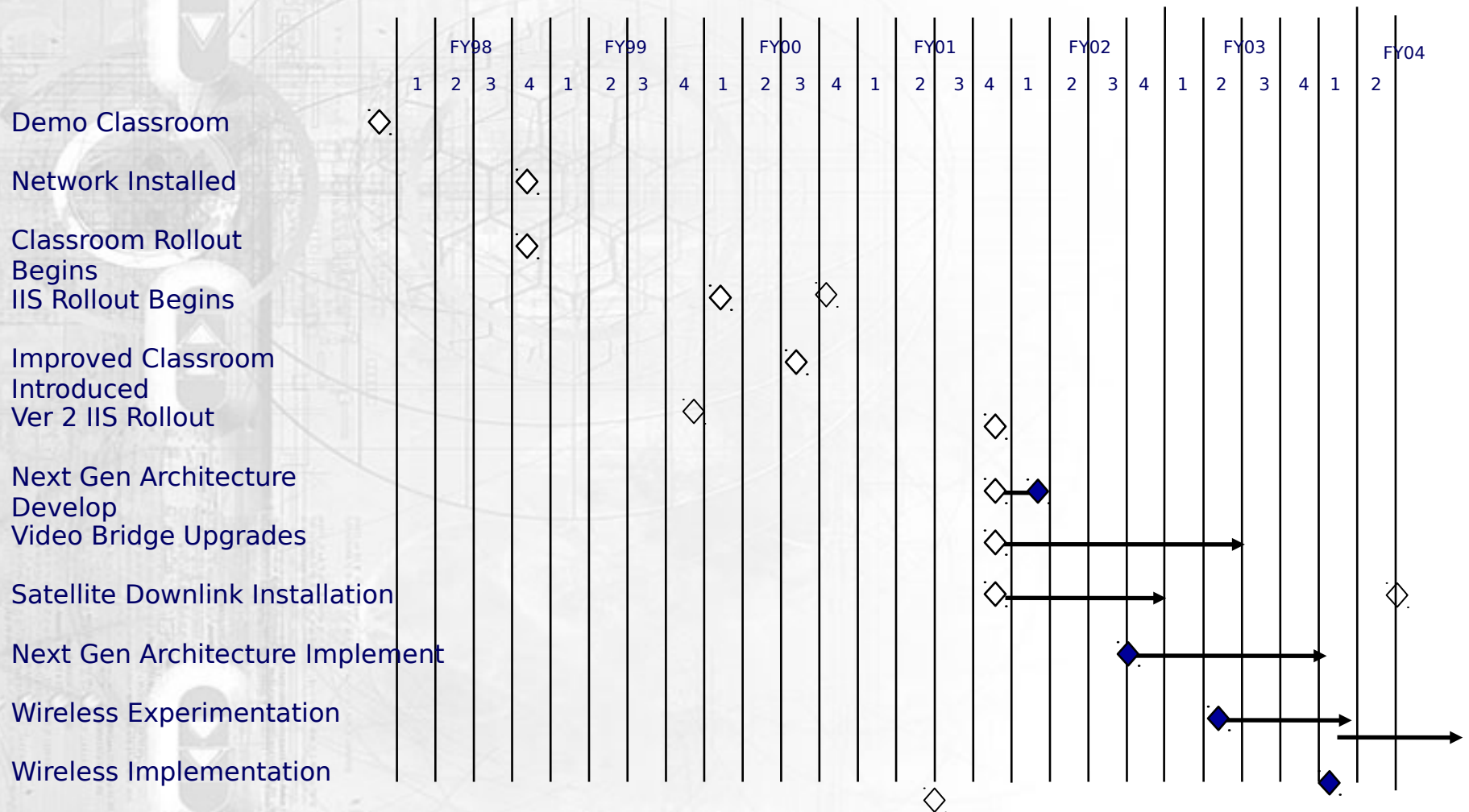# Next-Generation Architecture

- Requirements process began April 2000
- Functional Requirements Document (FRD) presented to RCB February 2001
- Final review completed - due out on requirements weighting from NGB-ART
- New architecture will provide facelift for current IIS and classroom architectures
- Using MT for prototyping this summer
- Goal is to have operational testing complete by December 2001
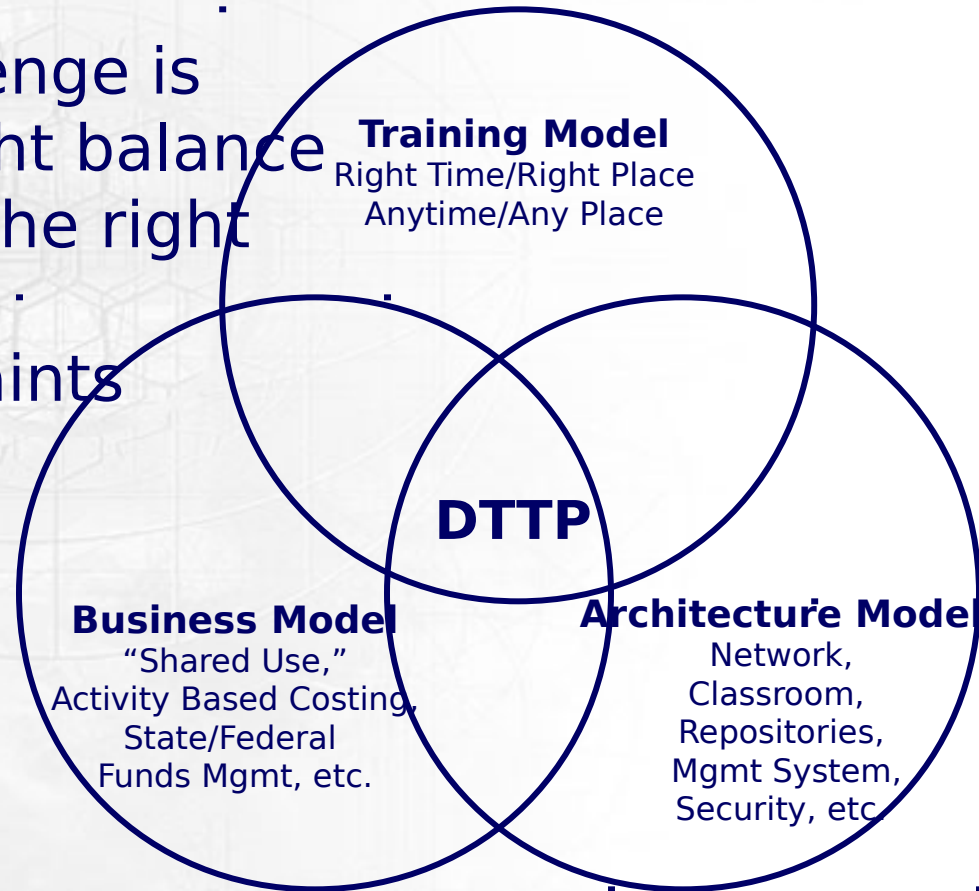
Security Enhancements

- Completion of Collateral Secret Security Accreditation Package for Selected Sites

- PKI/Smart Card Integration

- SIPRNET Requirements

DTTP Road Map

	FY98				FY99				FY00				FY01				FY02				FY03				FY04
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2

- Demo Classroom
- Network Installed
- Classroom Rollout Begins
- IIS Rollout Begins
- Improved Classroom Introduced
- Ver 2 IIS Rollout
- Next Gen Architecture Develop
- Video Bridge Upgrades
- Satellite Downlink Installation
- Next Gen Architecture Implement
- Wireless Experimentation
- Wireless Implementation

For DTTP, the challenge is determining the right balance and implementing the right blend of competing imperatives/constraints

Training Model
Right Time/Right Place
Anytime/Any Place

DTTP

Business Model
"Shared Use,"
Activity Based Costing,
State/Federal
Funds Mgmt, etc.

Architecture Model
Network,
Classroom,
Repositories,
Mgmt System,
Security, etc.

Contact Us

http://www.arng.ngb.army.mil/dttp

LTC Dennis Donovan

Product Manager, DTTP

(703) 601-0588

DonovanDP@pmorcas-arng.ngb.army.mil